

Q-348



SVE BULLETIN

SPECIAL VEHICLE ENGINEERING – BODY BUILDERS ADVISORY SERVICE

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QVM BULLETIN: Q-348

DATE: 11JAN2022

ENGINE COMPARTMENT/UNDERBODY TEMPERATURE CHANGES ON MEDIUM DUTY, E-SERIES, AND F5X MOTORHOME/STEP VAN EQUIPPED WITH 7.3L ENGINE

REVISION	UPDATE	REVISION DATE
Q-348	INITIAL RELEASE	11JAN2022

MODEL(S) AFFECTED:

24 MODEL YEAR (MY) MEDIUM DUTY & E-SERIES, and 23MY F53/59 MOTORHOME/STEP VAN equipped with 7.3L Engine.

ISSUE / DESCRIPTION:

Due to changes in CARB emissions regulation changes for 24MY and beyond vehicles, pedal based enrichment is no longer allowed on Heavy-Duty vehicles.

This emission change will typically cause an increase in exhaust gas temperatures which will likely mean some level of temperature increase in the engine compartment and underbody of the vehicle.

Purpose of this bulletin is to highlight the expected engine compartment and underbody temperature changes for the

- 24MY Medium Duty
- 24MY E-Series
- 23MY F53/59 Motorhome/Step Van

This information will allow up-fitters that use these Ford products to better plan for any component changes and/or thermal countermeasures required for these temperature increases.

Refer to the Body Builder Layout Book for additional guidelines and recommendations. If you have any questions, please contact the [Ford Body Builders Advisory Service](#) as shown in the header of this bulletin.

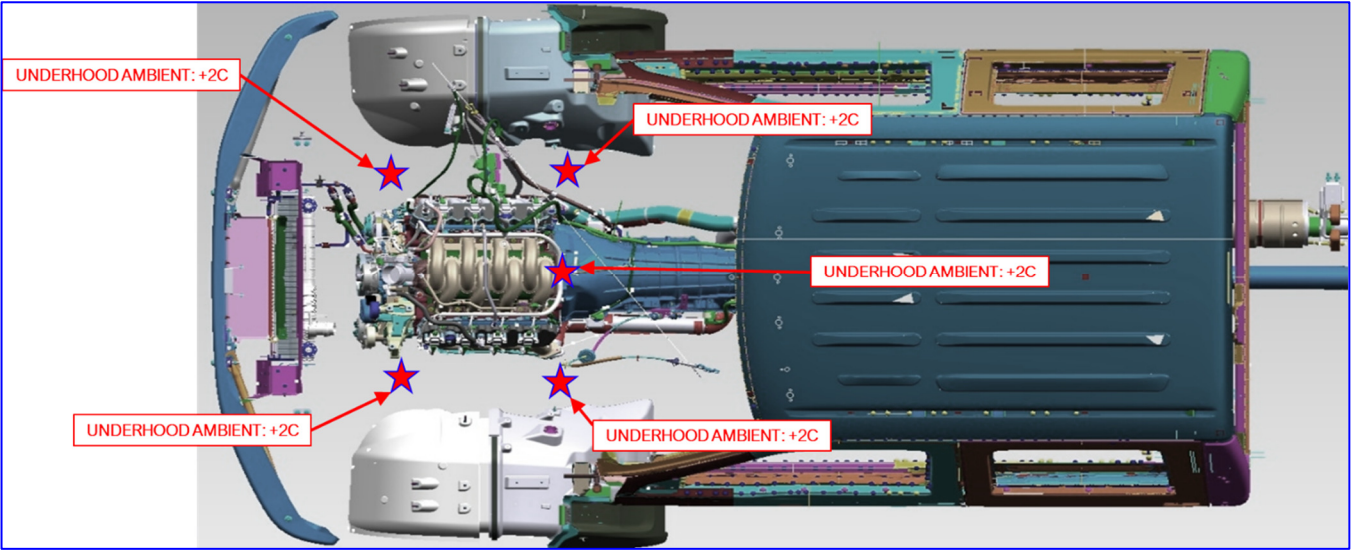


Figure 1 - Engine Compartment Ambient Air Temperature

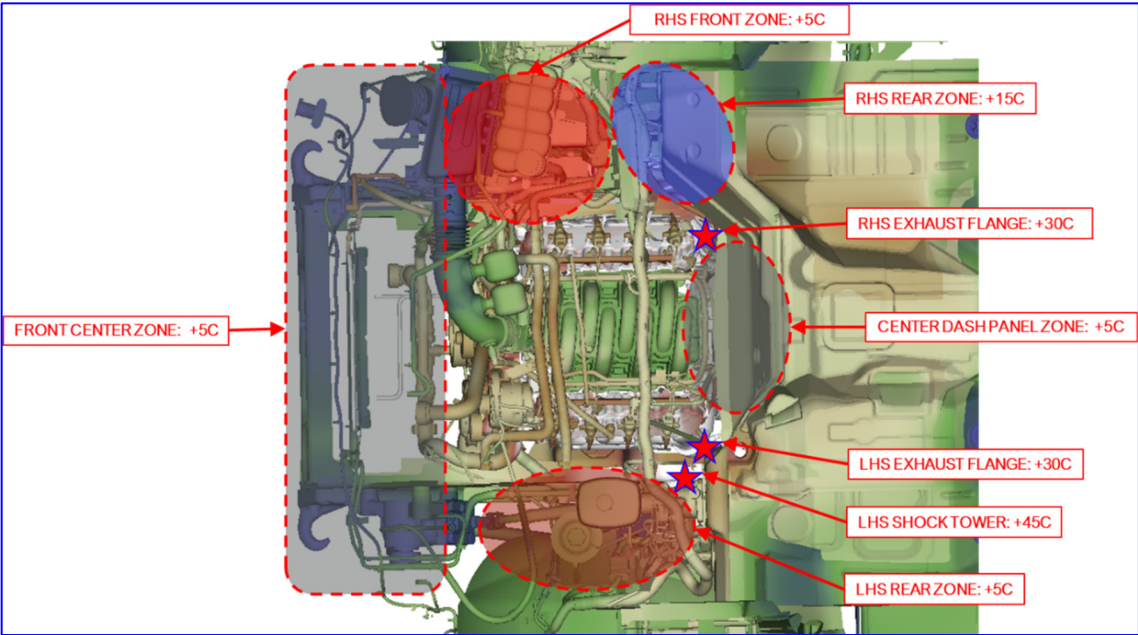


Figure 2 - Engine Compartment Skin Temperature

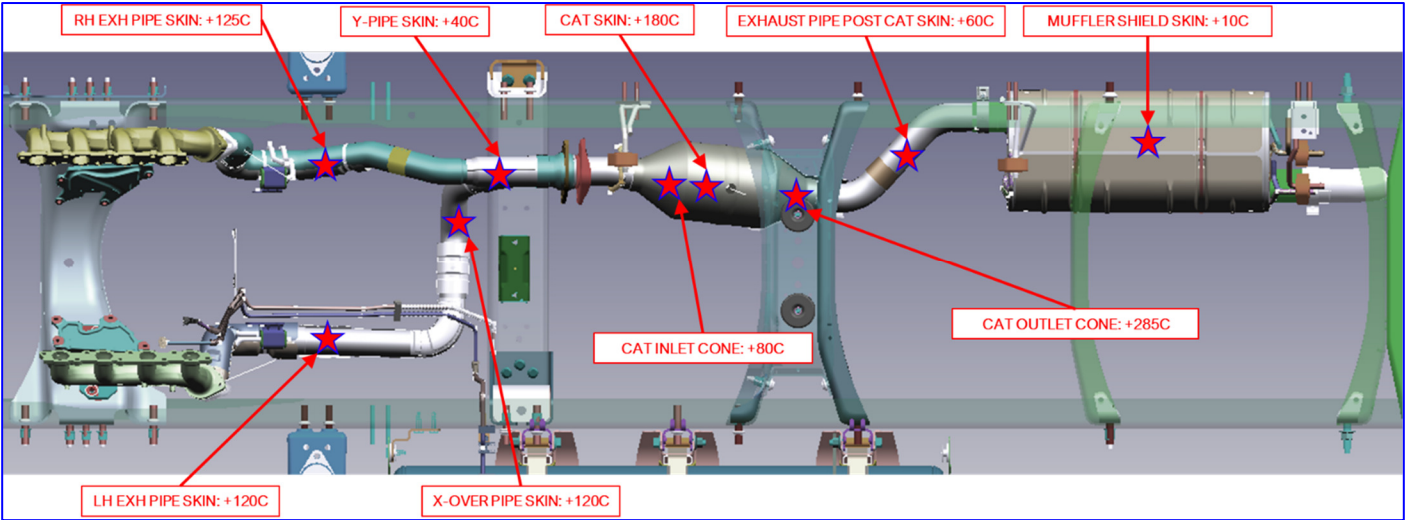


Figure 3 - Exhaust System Skin Temperature

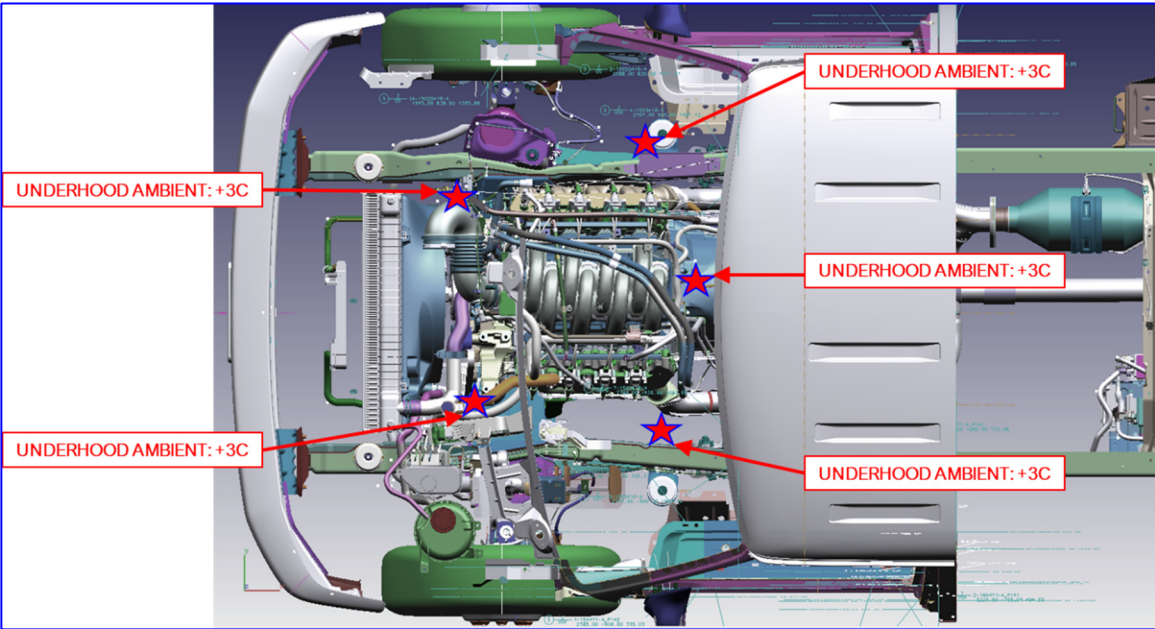


Figure 4 - Engine Compartment Ambient Air Temperature

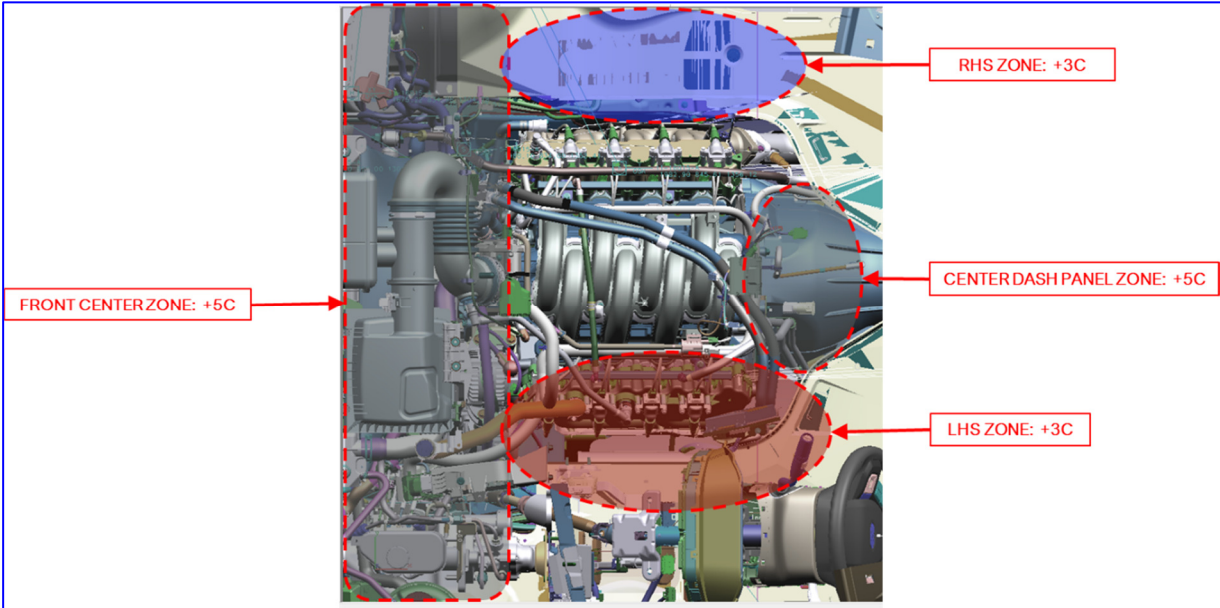


Figure 5 - Engine Compartment Skin Temperature

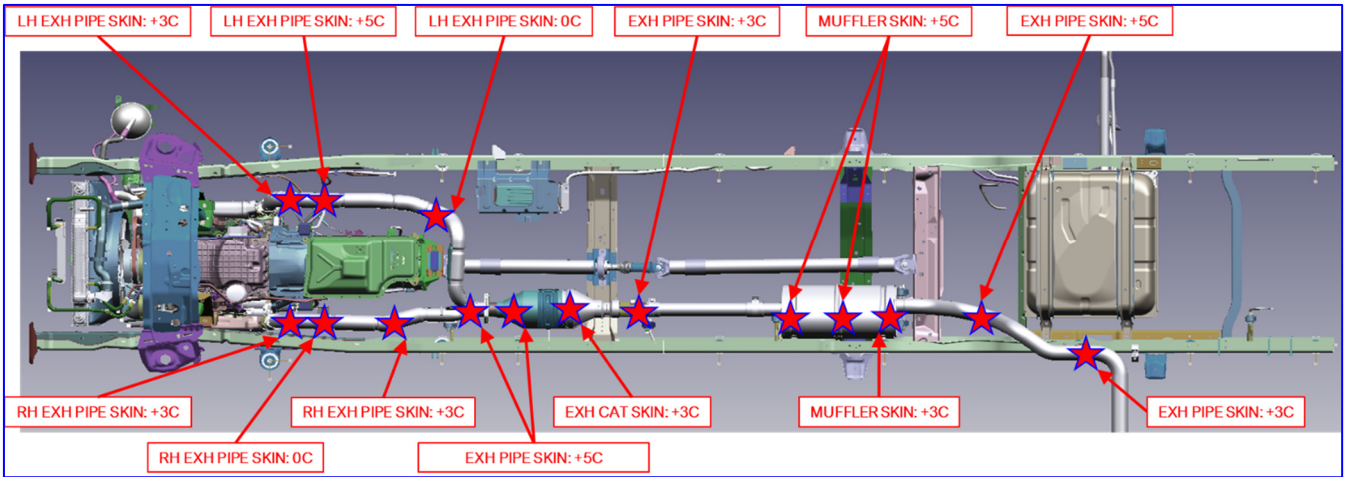
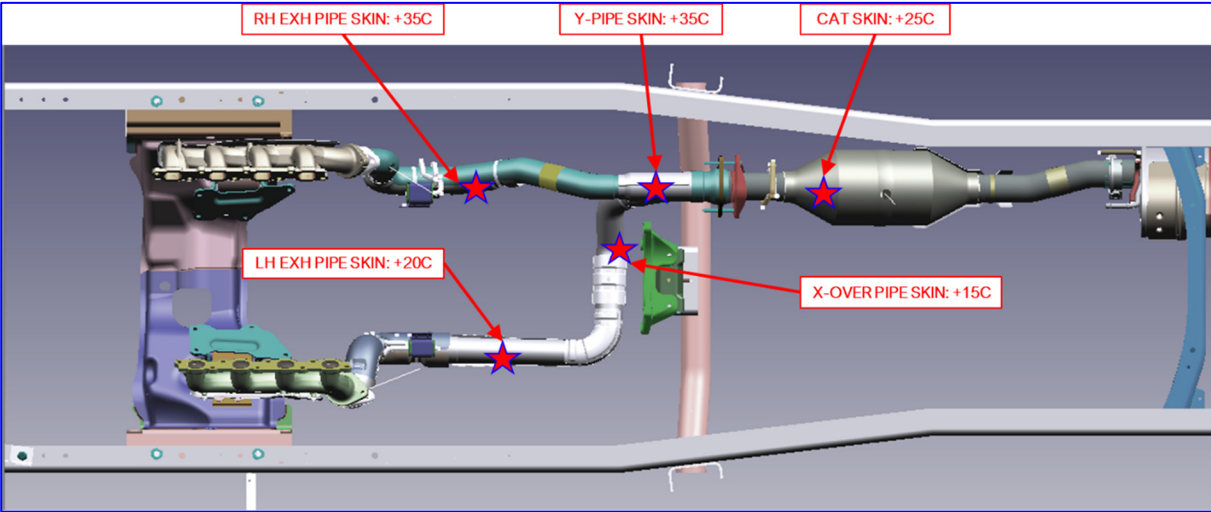
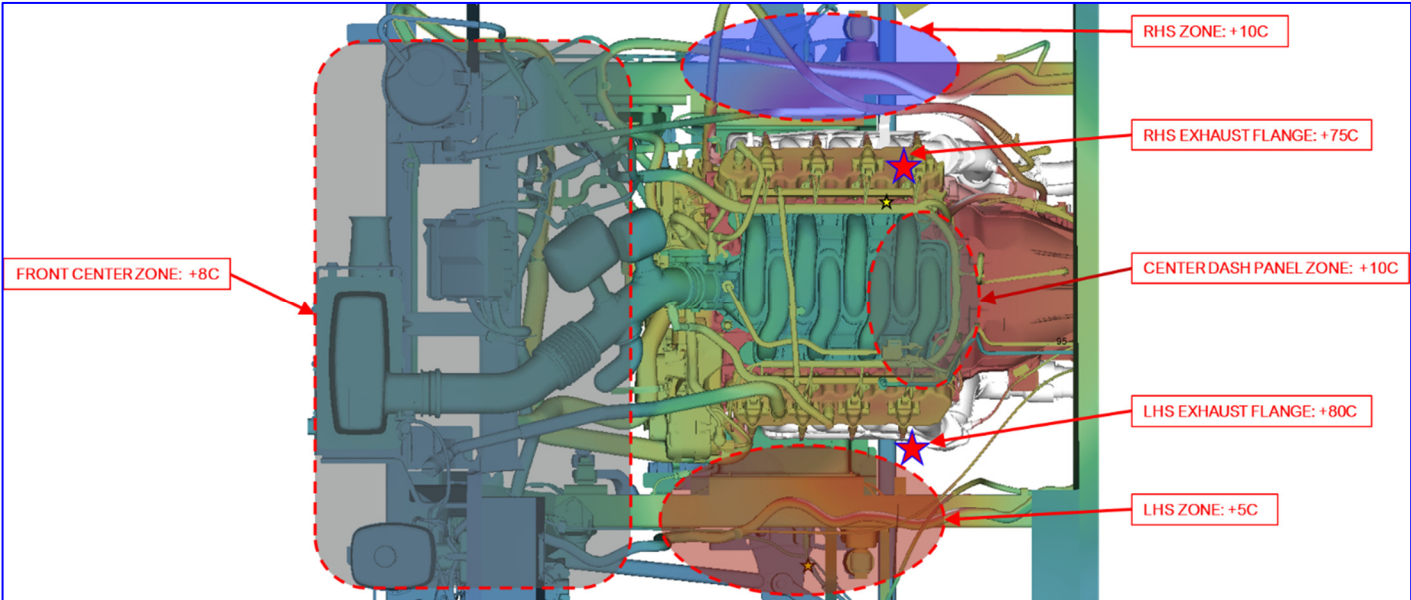
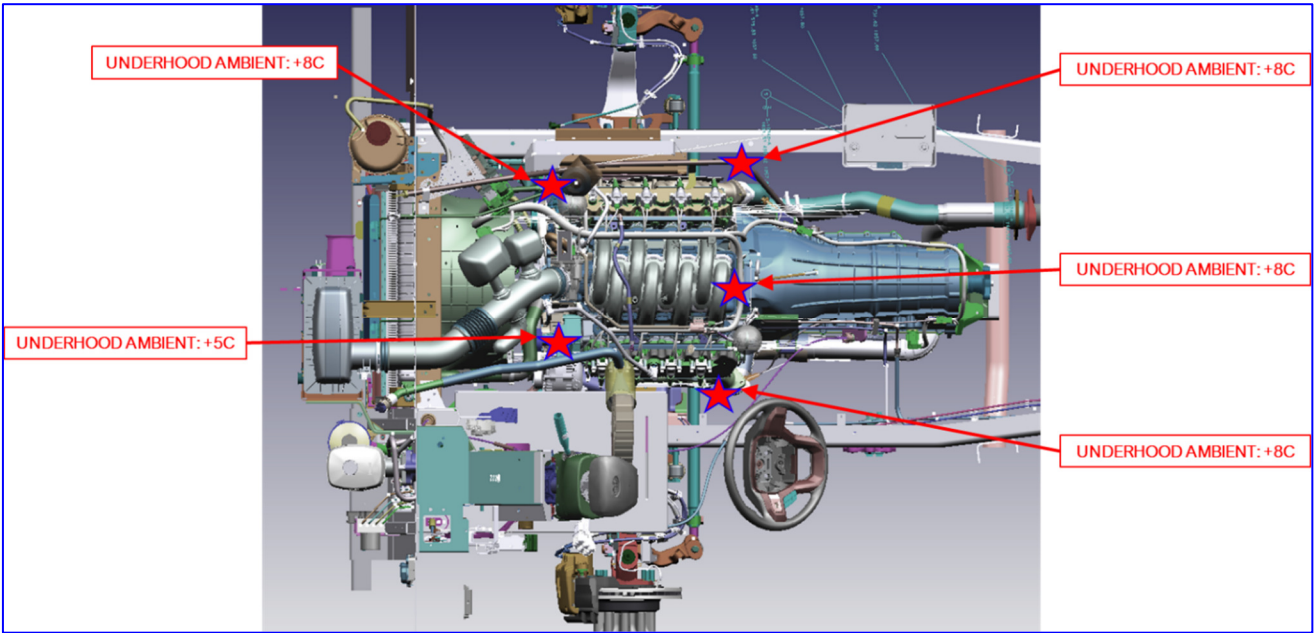


Figure 6 - Exhaust System Skin Temperature



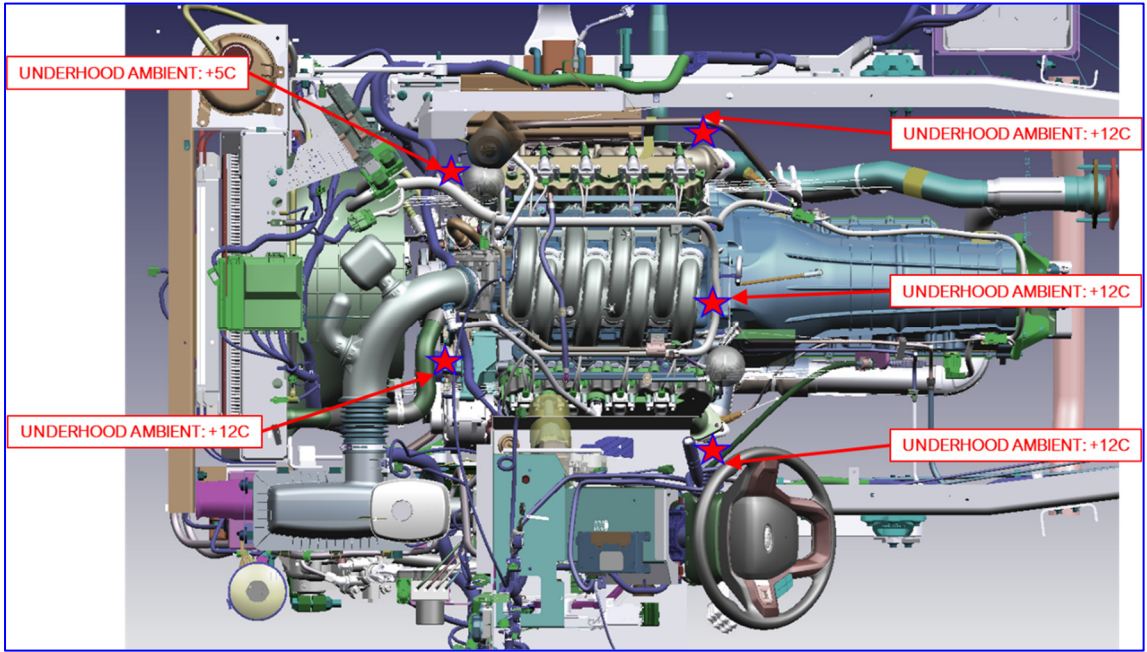


Figure 10 - Engine Compartment Ambient Air Temperature

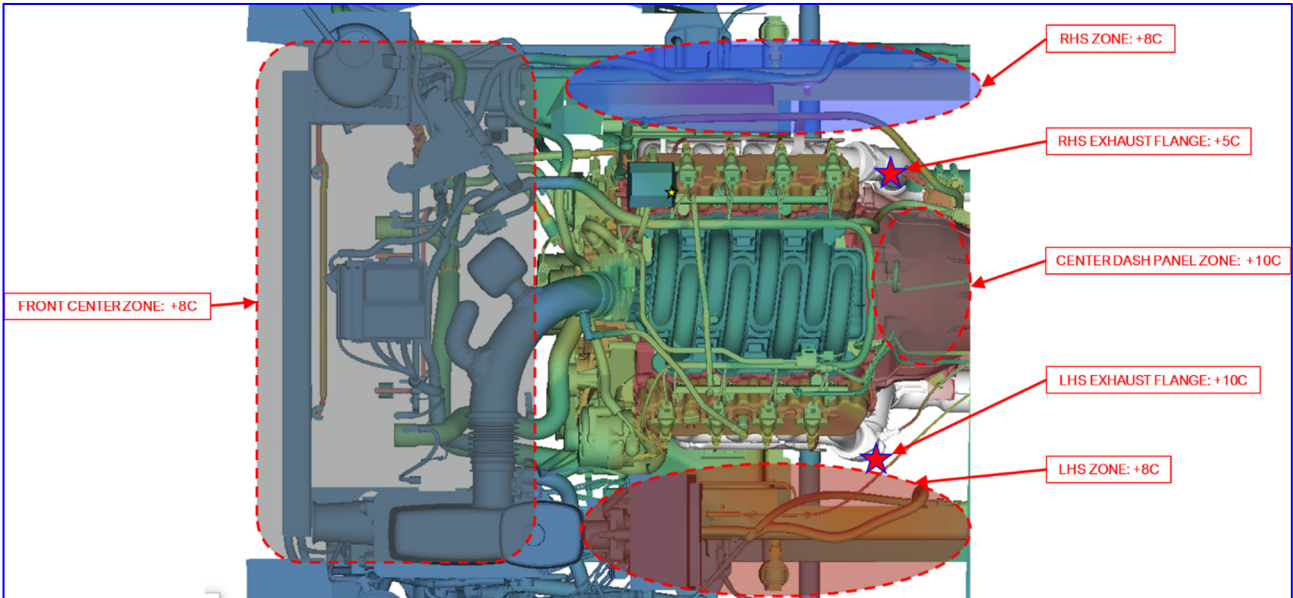


Figure 11 - Engine Compartment Skin Temperature

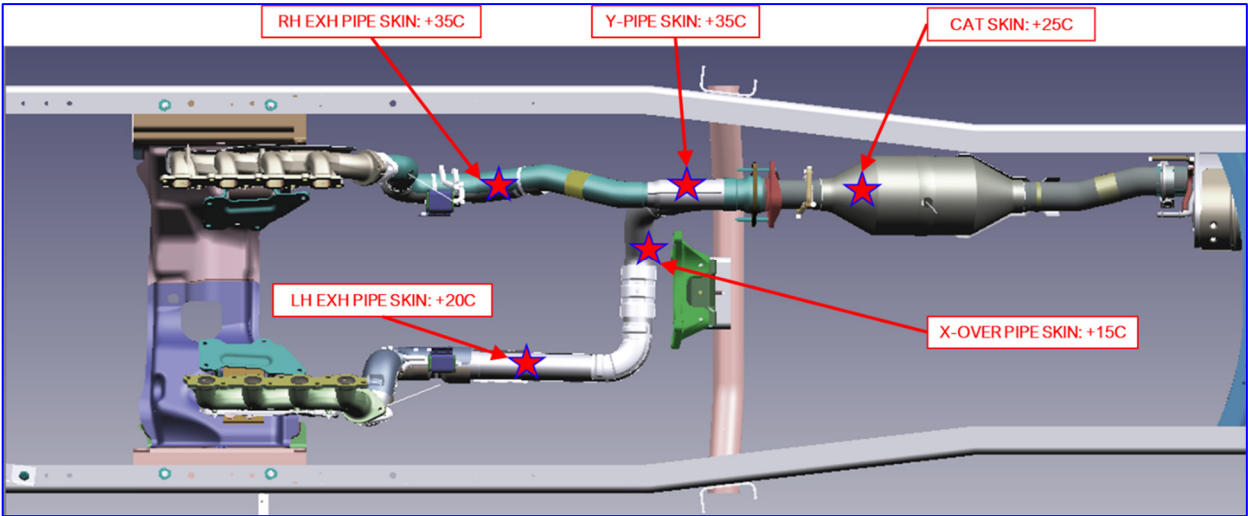


Figure 12 - Exhaust System Skin Temperature